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Approved For Release 2002/06/14 : CIA-RDP71B00185A000100060283-4

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4168-64

29 April 1964

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MEMORANDUM FOR: Chief, Air Systems Division

SUBJECT : Advanced [] Program

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1. This memorandum will further define some items I discussed with [] today pertaining to the advanced [] system.

a. On page 5 of Technical Proposal T-441-2 a 500 ft. radar spacing is assumed. This of course would severely restrict the use of the equipment in many situations. How do the operators feel about this?

b. With regard to the whole program there is a danger of measuring one elephant and generalizing about the herd. Any specific set against which the equipment is operated may be performing poorly and it is certain that the set will not be exactly average. Have theoretical estimates been developed which would indicate the bounds? Since the objective of the work is support of OXCART, the results must be capable of indicating the performance which a motivated crew with exceptional equipment can do.

c. In the technical proposal cited above, there is a lack of a general theory on the approach to the problem and perhaps too much emphasis on "in the field" development. Severe problems are acknowledged but only in passing.

d. On page 20 of the cited report I note that no provision is made for target scintillation which of course is more a hallmark of realism than the less rapid changes caused by antenna beam shape.

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If any of the radars dwell on the target a steady signal would be an immediate give away. This should be relatively simple to add.

e. On page 21 the height finder problem is acknowledged but there is no indication of how synchronization with more elevation scan can be achieved. How does the adaptive system work?

2. A short technical review has been arranged for early next week (May 5 at 0900, Room 2 F 20). If this seems too late or too soon, please let me know.

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**Deputy Assistant Director
Systems and Development
Office of ELINT, DD/S&T**

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